Translating Word Phrases and Speaking Algebraically

ONES TO WATCH!

When the words MORE, 1855, or Subtracted from are used the number will come After the operation.

Examples: "5 more than x" = $X + \bot$

"6 less than b" = ()

"8 subtracted from y" = $\sqrt{-9}$

When the word <u>GUOTICM</u> is used it typically has <u>OOO</u> as part of the words. This does not mean <u>OOOHION</u>. It means the numbers or variables are being divided.

Example: "the quotient of x and 2"

When the word <u>GUantity</u>, is used it means that part of the expression is written in <u>Parentheses</u>.

Example: "9 times the quantity of a number plus 4"

$$= 9(y+4)$$

U TRY!

-) 3 more than the quotient of a number and 6
- 7 subtracted from twice a number <u>O</u>
- 6 times the quantity of a number minus 5
- 5 more than double a number
- 8 times the sum of x and 4
- 4 less than 9 divided by a number

a car travels 55 miles per hour. Write an expression and evaluate (if you can) for how far the car will have travelled:

- A) After 3 hours
- 55(3)=165
- B) After 5 hours

55(5)

- C) After h hours
- 55h

A plain pizza costs \$7.00. Each topping adds an extra cost of \$0.50. Write an expression and evaluate (if you can) the cost of the pizzas:

A) With one topping

- $\frac{7.00 + .50(1)}{= $57.50}$
- B) With two toppings
- 7.00+.50(a) = \$8.00

C) With n toppings

7.00+.500

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) Ted was buying soda for a party. He needs 2 cans of soda per person. Ted is having p number of people at the party.

Write an expression to represent the amount of soda he should buy.

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If Ted has 98 people attend his party, how many cans of soda should he b

= 190 cans